

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-235759

(43)Date of publication of application : 23.08.2002

(51)Int.Cl.

F16C 33/66

(21)Application number : 2001-366501

(71)Applicant : NSK LTD

(22)Date of filing : 30.11.2001

(72)Inventor : SUGIMORI YOICHIRO
SUMIYA TOSHIO
NAKA MICHIHARU
OGAWA TAKASHI
TERADA YASUHISA

(30)Priority

Priority number : 2000368551

Priority date : 04.12.2000

Priority country : JP

(54) ROLLING BEARING

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a rolling bearing having excellent bearing initial sound (cage sound) when starting an operation in a low temperature environment, reducing fretting damage (wear) and reducing bearing torque.

SOLUTION: This rolling bearing in which a radius of curvature of a cross-sectional shape of an inner race raceway and a radius of curvature of a cross-sectional shape of an outer race raceway are $\geq 51.0\%$ and $< 60.0\%$ of an outer diameter of a rolling element is characterized by sealing grease composition blended with metal soap-base thickener including a long fibrous material having a length in the long diameter portion of at least $3 \mu\text{m}$ in base oil made by mixing lubricating oil having a polar group in its molecular structure with nonpolar lubricating oil.

